Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!


## Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832
Email & Skype: info@chipsmall.com Web: www.chipsmall.com
Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China

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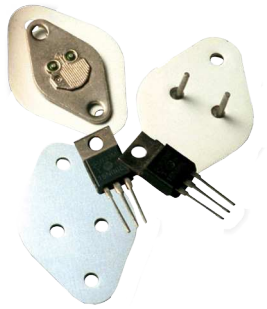
Smart Technology. Delivered.

# Tgard™ 300 Series
## Thermally Conductive Insulators



### HIGH PERFORMANCE THERMAL INTERFACE PRODUCTS

Tgard™ 300 is a medium thermal performance insulator pad consisting of a ceramic high temperature silcone rubber coated on electrical fiberglass.

Tgard 300 is specifically designed for applications that require low component mounting forces. The unique formulation will enhance thermal performance which minimizes thermal resistance at low mounting forces. The uniqe coating formulation offers an excellent mating surface for low pressure clip mounting applications.

### FEATURES AND BENEFITS

- High breakdown voltage of 6,000 volts AC
- Thermal resistance of 0.50º C-in2/watt at 50 psi
- Unique coating formulation offers low mounting forces
- Unifying benefits of thermal & electrical performance for general-purpose applications

### APPLICATIONS

- Switching mode power supplies
- Industrial equipment
- Motor controls

Americas: +1.847 839.6907
IAS-AmericasEastSales@lairdtech.com

Europe: +44.1628.858941
IAS-EUSales@lairdtech.com

Asia: ++86.21.5855.0827.127
IAS-AsiaSales@lairdtech.com

CLV-customerservice@lairdtech.com

www.lairdtech.com/thermal

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# Tgard™ 300 Series
## Thermally Conductive Insulators

| PROPERTIES | TEST METHOD | METRIC VALUES | IMPERIAL VALUES |
|---|---|---|---|
| ELECTRICAL PROPERTIES | | | |
| Dielectric withstand voltage 50mm probe for 30 sec | ASTM D149 | 4,500 volts DC | 4,500 volts DC |
| Dielectric breakdown voltage 50mm probe | ASTM D149 | Avg >6,000 volts AC | Avg >6,000 volts AC |
| Volume resistivity | ASTN D257 | $10^{12}$ ohm-cm | $10^{12}$ ohm-in |
| Dielectric constant @1Mhz | ASTN D257 | 3.3 | 3.3 |
| Electrical RTI temperature rating | UL746D | 150ºC | 302ºF |
| MECHANICAL PROPERTIES | | | |
| Thickness | | 0.23 mm | 0.009 in |
| Hardness | ASTM D2240 | 75 Shore A | 75 Shore A |
| Tensile strength | ASTM D412 | 10 Mpa | 1.5 Kpsi |
| Elongation @ 45º to warp/fill | ASTM D412 | 20% | 20% |
| Elongation along width or length | ASTM D412 | 5% | 5% |
| Operating temperature range | | -60º to 180ºC | -76º to 356ºF |
| Color | | Yellow | Yellow |
| UL flammability rating | UL 94 | V-0 | V-0 |

| PRESSURE | UNITS | 10 (69) | 25 (172) | 50 (345) | 100 (689) | 200 (1379) | 400 (2758) |
|---|---|---|---|---|---|---|---|
| TOTAL THERMAL RESISTANCE | | | | | | | |
| Modified ASTM D5470 | ºC-in²/watt | 0.62 | 0.57 | 0.50 | 0.41 | 0.34 | 0.30 |
| Modified ASTM D5470 | ºC-cm²/watt | 4.00 | 3.68 | 3.09 | 2.65 | 2.19 | 1.94 |
| T0-220 | ºC/watt | 1.17 | 0.92 | 0.83 | 0.81 | 0.80 | 0.76 |

Standard thickness: 9 mils (0.229 mm)

Configurations available:
- Sheet form, roll form and die-cut parts
- Single-side, pressure-sensitive adhesive on request

Standard options:
- Without adhesive (A0): 12 x 18" sheets, 12" x 65M, 12" x 30M roll or custom configuration
- With adhesive (A1): 11.75 x 18" sheets, 11.75" x 30M roll or custom configuration